

Interactive comment on “Calving event size measurements and statistics of Equip Sermia, Greenland, from terrestrial radar interferometry” by Andrea Walter et al.

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General reply

We thank both reviewers, Surui Xie and Pierre Marie Lefeuve, for reading through the manuscript and their critical comments and helpful ideas, and suggestions. We appreciate the invested time for the feedback. The reviewer's major concerns mainly referred to the issue of uncertainty in TRI derived elevation models, the ice flux budget estimation and the statistical analysis. We are thankful for these comments and we think we should be able to address those comments in our revisions and that they will considerably improve the manuscript. Here we reply to the more substantial concerns

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raised by the reviewers and present our ideas for revisions. The main changes we plan are 1) a detailed error analysis of the stable terrain between the TRI derived DEMs 2) to compare the ArcticDEM with the TRI derived DEMs 3) and a more detailed analysis of the ice flux as comparison to the calculated calving volumes.

Most of the minor comments consider language or detailed content or are specific examples of the major concerns. All these more minor corrections will be addressed in the revised manuscript. We therefore mostly refer to the major comments here. We appreciate the opinion of the editor on the suggested revisions.

For our reply to the major concerns please look at the supplement pdf.

Please also note the supplement to this comment:

<https://www.the-cryosphere-discuss.net/tc-2019-102/tc-2019-102-AC1-supplement.pdf>

Interactive comment on The Cryosphere Discuss., <https://doi.org/10.5194/tc-2019-102>, 2019.